

## CONTENTS OF VOLUME 13

### Special Invited Papers, Articles and Short Communications

ALPERN, STEVE. Conjecture: In general a mixing transformation is not two-fold mixing .....	310-313
ANDJEL, ENRIQUE D. Invariant measures and long time behaviour of the smoothing process .....	62-71
ARRATIA, RICHARD. Symmetric exclusion processes: A comparison inequality and a large deviation result .....	53-61
ARRATIA, RICHARD AND WATERMAN, MICHAEL S. Critical phenomena in sequence matching .....	1236-1249
ARTSTEIN, ZVI AND HANSEN, JENNIE C. Convexification in limit laws of random sets in Banach spaces .....	307-309
BARRON, ANDREW R. The strong ergodic theorem for densities: Generalized Shannon-McMillan-Breiman theorem .....	1292-1303
BASS, R. F. AND ERICKSON, K. B. Local laws of the iterated logarithm for diffusions .....	616-624
BASS, RICHARD F. AND PYKE, RONALD. The space $D(A)$ and weak convergence for set-indexed processes .....	860-884
BERTOLUZZA, CARLO AND FORTE, BRUNO. Mutual dependence of random variables and maximum discretized entropy .....	630-637
BHATTACHARYA, RABI. A central limit theorem for diffusions with periodic coefficients .....	385-396
BLOOMFIELD, PETER. On series representations for linear predictors .....	226-233
BOROVKOV, K. A. A note on a limit theorem for differentiable mappings .....	1018-1021
BRADLEY, RICHARD C. On the central limit question under absolute regularity .....	1314-1325
BRUNI, C. AND KOCH, G. Identifiability of continuous mixtures of unknown Gaussian distributions .....	1341-1357
BURDZY, KRZYSZTOF. Brownian paths and cones .....	1006-1010
BURTON, ROBERT AND WAYMIRE, ED. Scaling limits for associated random measures .....	1267-1278
CAMBANIS, STAMATIS, ROSINSKI, JAN, AND WOYCZYNKI, WOJBOR A. Convergence of quadratic forms in $p$ -stable random variables and $\theta_p$ -radonifying operators .....	885-897
CAMPANINO, M. AND RUSSO, L. An upper bound on the critical percolation probability for the three-dimensional cubic lattice ..	478-491
CHAGANTY, N. R. AND SETHURAMAN, J. Large deviation local limit theorems for arbitrary sequences of random variables ..	97-114
CHENG, SHIHONG. On limiting distributions of order statistics with variable ranks from stationary sequences .....	1326-1340
CHIANG, TZUU-SHUH. On the lower bound of large deviation of random walks .....	90-96
CLIFFORD, PETER AND SUDBURY, AIDAN. A sample path proof of the duality for stochastically monotone Markov processes .....	558-565

COGBURN, ROBERT. On the distribution of first passage and return times for small sets . . . . .	1219-1223
COHN, HARRY. A martingale approach to supercritical (CMJ) branching processes . . . . .	1179-1191
COOIL, BRUCE. Limiting multivariate distributions of intermediate order statistics . . . . .	469-477
COX, J. THEODORE AND GRIFFEATH, DAVID. Occupation times for critical branching Brownian motions . . . . .	1108-1132
DAVIS, BURGESS AND PERKINS, EDWIN. Brownian slow points: The critical case . . . . .	779-803
DAVIS, RICHARD AND RESNICK, SIDNEY. Limit theory for moving averages of random variables with regularly varying tail probabilities . . . . .	179-195
DYKSTRA, RICHARD L. An iterative procedure for obtaining $I$ -projections onto the intersection of convex sets . . . . .	975-984
ERICKSON, K. B. AND BASS, R. F. Local laws of the iterated logarithm for diffusions . . . . .	616-624
FADEN, ARNOLD M. The existence of regular conditional probabilities: necessary and sufficient conditions . . . . .	288-298
FLATTO, L., ODLYZKO, A. M., AND WALES, D. B. Random shuffles and group representations . . . . .	154-178
FORTE, BRUNO AND BERTOLUZZA, CARLO. Mutual dependence of random variables and maximum discretized entropy . . . . .	630-637
FOX, ROBERT AND TAQQU, MURAD S. Noncentral limit theorems for quadratic forms in random variables having long-range dependence . . . . .	428-446 985-990
FRANGOS, NIKOS E. On regularity of Banach-valued processes . . .	639-675
FREIDLIN, MARK. Limit theorems for large deviations and reaction-diffusion equations . . . . .	314-317
GILULA, ZVI AND SCHWARZ, GIDEON. On the maximum of a measure of deviation from independence between discrete random variables . . . . .	447-468
GINÉ, EVARIST AND HAHN, MARJORIE G. Characterization and domains of attraction of $p$ -stable random compact sets . . . . .	1133-1147
GREVEN, A. The coupled branching process in random environment . . . . .	1108-1132
GRIFFEATH, DAVID AND COX, J. THEODORE. Occupation times for critical branching Brownian motions . . . . .	1286-1291
GUT, ALLAN. On complete convergence in the law of large numbers for subsequences . . . . .	447-468
HAHN, MARJORIE G. AND GINÉ, EVARIST. Characterization and domains of attraction of $p$ -stable random compact sets . . . . .	1024-1027
HAIGH, JOHN. Rotational representations of stochastic matrices . .	991-1002
HALL, PETER. On the coverage of $k$ -dimensional space by $k$ -dimensional spheres . . . . .	1250-1266
HALL, PETER. On continuum percolation . . . . .	

HANSEN, JENNIE C. AND ARTSTEIN, Zvi. Convexification in limit laws of random sets in Banach spaces . . . . .	307-309
HARRISON, J. M., LANDAU, H. J., AND SHEPP, L. A. The stationary distribution of reflected Brownian motion in a planar region . . . . .	744-757
HOLLEY, RICHARD. Rapid convergence to equilibrium in one dimensional stochastic Ising models . . . . .	72-89
HÜRZELER, HARRY E. The optional sampling theorem for processes indexed by a partially ordered set . . . . .	1224-1235
HUGGINS, R. M. Laws of the iterated logarithm for time changed Brownian motion with an application to branching processes . .	1148-1156
IMHOF, J.-P. On the range of Brownian motion and its inverse process . . . . .	1011-1017
JAGERS, PETER AND NERMAN, OLLE. Branching processes in periodically varying environment . . . . .	254-268
JANKE, STEVEN J. Recurrent sets for transient Lévy processes with bounded kernels . . . . .	1204-1218
JENNEN, CHRISTEL. Second-order approximations to the density, mean and variance of Brownian first-exit times . . . . .	126-144
JOHNSON, W. B., SCHECHTMAN, G., AND ZINN, J. Best constants in moment inequalities for linear combinations of independent and exchangeable random variables . . . . .	234-253
JUREK, ZBIGNIEW J. Relations between the $s$ -selfdecomposable and selfdecomposable measures . . . . .	592-608
KALLIANPUR, G. AND KARANDIKAR, R. L. White noise calculus and nonlinear filtering theory . . . . .	1033-1107
KARANDIKAR, R. L. AND KALLIANPUR, G. White noise calculus and nonlinear filtering theory . . . . .	1033-1107
KASPI, H. Excursion laws of Markov processes in classical duality	492-518
KENNEDY, D. P. Optimal stopping of independent random variables and maximizing prophets . . . . .	566-571
KLAASSEN, CHRIS A. J. On an inequality of Chernoff . . . . .	966-974
KLASS, MICHAEL J. The Robbins-Siegmund series criterion for partial maxima . . . . .	1369-1370
KOCH, G. AND BRUNI, C. Identifiability of continuous mixtures of unknown distributions . . . . .	1341-1357
KÜSTER, PETRA. Asymptotic growth of controlled Galton-Watson processes . . . . .	1157-1178
KUELBS, J. The LIL when $X$ is in the domain of attraction of a Gaussian law . . . . .	825-859
LANDAU, H. J., SHEPP, L. A., AND HARRISON, J. M. The stationary distribution of reflected Brownian motion in a planar region . . . . .	744-757
LEE, MEI-LING TING. Dependence by total positivity . . . . .	572-582
LEE, MEI-LING TING. Dependence by reverse regular rule . . . . .	583-591
LIAO, MING. Domination of last exit distributions . . . . .	1358-1363

LIGGETT, THOMAS M. An improved subadditive ergodic theorem . . . . . 1279-1285

LINDGREN, GEORG. Optimal prediction of level crossings in Gaussian processes and sequences . . . . . 804-824

MC CONNELL, TERRY R. The size of an analytic function as measured by Lévy's time change . . . . . 1003-1005

MENALDI, JOSÉ-LUIS AND ROBIN, MAURICE. Reflected diffusion processes with jumps . . . . . 319-341

MILLET, ANNIE. On randomized tactics and optimal stopping in the plane . . . . . 946-965

MINAMI, NARIYUKI, OGURA, YUKIO, AND TOMISAKI, MATSUO. Asymptotic behavior of elementary solutions of one-dimensional generalized diffusion equations . . . . . 698-715

MITOV, K. V. AND YANEV, N. M. Critical branching processes with nonhomogeneous migration . . . . . 923-933

NERMAN, OLLE AND JAGERS, PETER. Branching processes in periodically varying environment . . . . . 254-268

NOWAK, ANDRZEJ S. Universally measurable strategies in zero-sum stochastic games . . . . . 269-287

O'BRIEN, GEORGE L. AND VERVAAT, WIM. Self-similar processes with stationary increments generated by point processes . . . . . 28-52

ODLYZKO, A. M., WALES, D. B., AND FLATTO, L. Random shuffles and group representations . . . . . 154-178

ODLYZKO, A. M. AND RICHMOND, L. B. On the unimodality of high convolutions of discrete distributions . . . . . 299-306

OGURA, YUKIO, TOMISAKI, MATSUO, AND MINAMI, NARIYUKI. Asymptotic behavior of elementary solutions of one-dimensional generalized diffusion equations . . . . . 698-715

OKADA, NORIO. On differentiability preserving properties of semi-groups associated with one-dimensional singular diffusions . . . . . 206-225

OKAZAKI, YOSHIAKI. Bochner's theorem in measurable dual of type 2 Banach space . . . . . 1022-1023

PELIGRAD, MAGDA. An invariance principle for  $\phi$ -mixing sequences . . . . . 1304-1313

PERKINS, EDWIN AND DAVIS, BURGESS. Brownian slow points: The critical case . . . . . 779-803

PINSKY, ROSS. On evaluating the Donsker-Varadhan  $I$ -function . . . . . 342-362

PINSKY, ROSS. On the convergence of diffusion processes conditioned to remain in a bounded region for large time to limiting positive recurrent diffusion processes . . . . . 363-378

PINSKY, ROSS. The  $I$ -function for diffusion processes with boundaries . . . . . 676-692

PINSKY, ROSS. A classification of diffusion processes with boundaries by their invariant measures . . . . . 693-697

PITTEL, B. Asymptotical growth of a class of random trees . . . . . 414-427

PROTTER, PHILIP. Volterra equations driven by semimartingales . . . . . 519-530

PROTTER, PHILIP. Approximations of solutions of stochastic differential equations driven by semimartingales . . . . . 716-743

PURI, MADAN L., SEOH, MUNSUP, AND RALESCU, STEFAN S. Cramér type large deviations for generalized rank statistics . . . . .	115-125
PURI, MADAN L. AND RALESCU, DAN A. The concept of normality for fuzzy random variables . . . . .	1373-1379
PYKE, RONALD AND BASS, RICHARD F. The space $D(A)$ and weak convergence for set-indexed processes . . . . .	860-884
RALESCU, DAN A. AND PURI, MADAN L. The concept of normality for fuzzy random variables . . . . .	1373-1379
RALESCU, STEFAN S., PURI, MADAN L., AND SEOH, MUNSUP. Cramér type large deviations for generalized rank statistics . . . . .	115-125
RESNICK, SIDNEY AND DAVIS, RICHARD. Limit theory for moving averages of random variables with regularly varying tail probabilities . . . . .	179-195 898-922
RESSEL, PAUL. De Finetti-type theorems: An analytical approach	
RICHMOND, L. B. AND ODLYZKO, A. M. On the unimodality of high convolutions of discrete distributions . . . . .	299-306
ROBIN, MAURICE AND MENALDI, JOSÉ-LUIS. Reflected diffusion processes with jumps . . . . .	319-341
ROSEN, JAY. A representation for the intersection local time of Brownian motion in space . . . . .	145-153
ROSINSKI, JAN, WOYCZYNSKI, WOJBOR A., AND CAMPANIS, STAMATIS. Convergence of quadratic forms in $p$ -stable random variables and $\theta_p$ -radonifying operators . . . . .	885-897
RUSSO, L. AND CAMPANINO, M. An upper bound on the critical percolation probability for the three-dimensional cubic lattice .	478-491
SCHECHTMAN, G., ZINN, J., AND JOHNSON, W. B. Best constants in moment inequalities for linear combinations of independent and exchangeable random variables . . . . .	234-253
SCHEUTZOW, MICHAEL. Some examples of nonlinear diffusion processes having a time-periodic law . . . . .	379-384
SCHWARZ, GIDEON. Multivariate distributions with uniformly distributed projections . . . . .	1371-1372
SCHWARZ, GIDEON AND GILULA, ZVI. On the maximum of a measure of deviation from independence between discrete random variables . . . . .	314-317
SEOH, MUNSUP, RALESCU, STEFAN S., AND PURI, MADAN L. Cramér type large deviations for generalized rank statistics . . . . .	115-125
SETHURAMAN, J. AND CHAGANTY, N. R. Large deviation local limit theorems for arbitrary sequences of random variables . . .	97-114
SHEPP, L. A., HARRISON, J. M., AND LANDAU, H. J. The stationary distribution of reflected Brownian motion in a planar region . . . . .	744-757
SILVERSTEIN, JACK W. The smallest eigenvalue of a large dimensional Wishart matrix . . . . .	1364-1368
SUDBURY, AIDAN AND CLIFFORD, PETER. A sample path proof of the duality for stochastically monotone Markov processes . . .	558-565
SWEETING, T. J. On domains of uniform local attraction in extreme value theory . . . . .	196-205

TALAGRAND, MICHEL. Some structure results for martingales in the limit and pramarts .....	1192-1203
TAQQU, MURAD S. AND FOX, ROBERT. Noncentral limit theorems for quadratic forms in random variables having long-range dependence .....	428-446
TOMISAKI, MATSUYO, MINAMI, NARIYUKI, AND OGURA, YUKIO. Asymptotic behavior of elementary solutions of one-dimensional generalized diffusion equations .....	698-715
VAN PUTTEN, C. AND VAN SCHUPPEN, J. H. Invariance properties of the conditional independence relation .....	934-945
VAN SCHUPPEN, J. H. AND VAN PUTTEN, C. Invariance properties of the conditional independence relation .....	934-945
VERVAAT, WIM. Sample path properties of self-similar processes with stationary increments .....	1-27
VERVAAT, WIM AND O'BRIEN, GEORGE L. Self-similar processes with stationary increments generated by point processes .....	28-52
WALES, D. B., FLATTO, L., AND ODLYZKO, A. M. Random shuffles and group representations .....	154-178
WATERMAN, MICHAEL S. AND ARRATIA, RICHARD. Critical phenomena in sequence matching .....	1236-1249
WATKINS, JOSEPH C. A stochastic integral representation for random evolutions .....	531-557
WAYMIRE, ED AND BURTON, ROBERT. Scaling limits for associated random measures .....	1267-1278
WEIS, LUTZ W. Two examples concerning a theorem of Burgess and Mauldin .....	1028-1031
WILLIAMS, R. J. Recurrence classification and invariant measure for reflected Brownian motion in a wedge .....	758-778
WOOD, THOMAS E. A local limit theorem for associated sequences	625-629
WOYCZYNISKI, WOJBOR A., CAMBANIS, STAMATIS, AND ROSINSKI, JAN. Convergence of quadratic forms in $p$ -stable random variables and $\theta_p$ -radonifying operators .....	885-897
YAMADA, KEIGO. A limit theorem for nonnegative additive functionals of storage processes .....	397-413
YANEV, N. M. AND MITOV, K. V. Critical branching processes with nonhomogeneous migration .....	923-933
ZAKAI, MOSHE. Malliavin derivatives and derivatives of functionals of the Wiener process with respect to a scale parameter ..	609-615
ZINN, J., JOHNSON, W. B., AND SCHECHTMAN, G. Best constants in moment inequalities for linear combinations of independent and exchangeable random variables .....	234-253

